- What are the four primary areas 1-1. into which navigation is divided?
 - Dead reckoning, plotting, celestial navigation, and electronic navigation
 - 2. Dead reckoning, plotting, celestial navigation, and radio navigation
 - 3. Piloting, dead reckoning, celestial navigation, and radio navigation
 - 4. Dead reckoning, plotting, celestial navigation, and radio navigation
- 1-2.How is the term "piloting" defined?
 - 1. Navigating with a harbor pilot aboard
 - 2. Navigating by landmarks and radar only
 - 3. The movement of a vessel with continuous reference to landmarks, aids to navigation, depth sounding, and radio navigation
 - 4. The movement of a vessel with continuous reference to dead reckoning and visual landmarks
- 1 3 How is the term "dead reckoning" defined?
 - 1. Projecting the ship's intended course and speed to an estimated point
 - 2. Projecting the ship's intended course and speed from a known point
 - 3. Projecting the ship's actual course and speed from a known
 - 4. Projecting the ship's actual course and speed to an estimated point
- Dead reckoning does not consider the effects of wind or current.
 - 1. True
 - 2. False
- Celestial navigation is defined as 1-5 the method of obtaining the ship's position by observing the Sun, Moon, stars, and planets.
 - 1. True
 - 2. False

- 1-6. To what accuracy may an experienced OM obtain a celestial fix in relation to the ship's position?
 - 1/10 mi
 - 2. 1/4 mi
 - 3. 1/2 mi
 - 1 mi
- 1-7. Celestial navigation is accomplished by measuring the height of a celestial body above which of the following points?
 - The horizontal plane
 - 1. 2. 3. The celestial horizon
 - The celestial plane
 - 4. The horizon
- 1-8. Radio navigation uses radar pulses to determine a ship's position.
 - 1. True
 - 2. False
- 1-9. Radio navigation is sometimes referred to as what type of navigation?
 - 1. Ground wave

 - 2. Inertial
 3. Radio direction
 4. Electronic
- 1-10. The most basic and important problem facing the navigator is determining which of the following values?

 - Position
 Direction
 Distance

 - 4. Speed
- 1-11. The term "position" refers to a known point on Earth.
 - 1. True
 - 2. False
- 1-12. On charts, direction is measured in polar units using the angular coordinate system.
 - 1. True
 - 2. False
- 1-13.The polar coordinate system is based on which of the following position(s)?
 - 1. North Pole only
 - 2. South Pole only

 - 3. True north
 4. North and South Pole

- mile?

 - 1. 6,071.6 2. 6,076.1 3. 6,671.0

 - 4. 6,760.6
- Navigation is based on what type of 1-15. time?
 - Greenwich mean time
 12-hour clock

 - 3. 24-hour clock
 - 4. 48-hour clock
- 1-16. Which of the following lines is/are considered to be a great circle?

 - The equator
 A plane passing through the 1-24. center of Earth
 - 3. Both 1 and 2 above
- Which of the following lines is NOT 1-17.a great circle?
 - Greenwich Meridian
 Parallel

 - 3. Equator
 - 4. International Date Line
- On navigation charts, what are 1-18. parallels called?

 - Equator
 Latitude
 Longitude
 - 4. Great circle
- Lines of latitude are parallel to which of the following reference 1-19. points?

 - Equator
 Greenwich Meridian
 - 3. International Date Line
 - 4. North Pole and South Pole
- What is the maximum number of degrees of latitude? 1-20
 - 45 1.
 - 90 2.
 - 3. 180
- Latitude is measured north or south 1-21 of the equator in which of the following units?
 - 1. Degrees
 - 2. Minutes
 - 3. Seconds
 - 4. Each of the above

- 1-14. How many feet are in a nautical 1-22. Why is the Greenwich Meridian called the Prime Meridian?
 - It divides the Earth in half
 - 2. It meets the equator at 450 angles
 - It is the starting point for all measurements
 - 4. It is crossed at its midpoint by the equator
 - How is longitude measured? 1-23.
 - 1. East or west throughout 180°

 - 2. East or west throughout 360° 3. From the Prime Meridian 180°
 - eastward only
 4. From the Prime Meridian 360° westward only
 - A nautical chart is like a road map for the world's oceans and inland waterways.

 - 1. True 2. False
 - Which of the following data can be 1-25. found on a nautical chart?
 - Parallels

 - Meridians
 Aids to navigation
 All of the above
 - 1-26. In what vicinity is the distortion greatest on a Mercator Projection Chart?

 - 180th meridian
 Greenwich Meridian
 At the poles
 At the Equator
 - 1-27. How do parallels appear on a Mercator Projection Chart?
 - 1. As curved lines that bend toward the top of the chart
 2. As parallel lines that run from
 - top to bottom
 - 3. As parallel lines that run from left to right
 - 4. As vertical lines that are parallel and equally spaced
 - One of the advantages of a Mercator Projection Chart is that rhumb 1-28. lines appear as what type of lines?
 - 1. Straight
 - 2. Waved 3. Curved

- 1-29. Chart?
 - 1. Plots great circles as straight lines
 - 2. Shows the shortest distance
 - between two points 3. Can be used to plan long ocean voyages
 4. Each of the above
- 1-30. Which of the following data would NOT appear on a navigation chart?

 - Soundings and buoys
 Lights and obstructions
 Distance scales and fathom curves
 - 4. Tides and currents

IN ANSWERING QUESTIONS 1-31 THROUGH 1-35, SELECT FROM COLUMN B THE SCALE THAT IS USED BY THE CHART IN COLUMN A. RESPONSES MAY BE USED MORE THAN ONCE.

	A.CHART	В.	SCALE
1-31.	Coastal	1.	1:50,000
1-32.	General	2.	1:150,000
1-33.	Harbor	3.	1:6,000,000
1-34.	Approach		
1-35.	Sailing		

- 1-36. Which of the following statements best describes a chart scale?
 - 1. The larger the scale, the larger the area
 - 2. The smaller the scale, the smaller the area
 - 3. The larger the scale, the smaller the area
 - 4. The smaller the scale, the larger the area
- 1 37. Which of the following scale ratios would show the greatest detail?
 - 1. 1 to 5,000,000
 - 2. 1 to 500,000 3. 1 to 50,000
 - 50,000
 - 4. 1 to 5,000
- Nautical charts are published by 1-38. DMAHTC and what other agency?

 - National Ocean Office
 National Ocean Program
 - 3. National Ocean Service
 - 4. National Ocean Bureau

- Which of the following is an 1-39. On a small scale chart, how is each advantage of a Gnomonic Projection degree usually broken down?

 - Into whole degrees only
 Into minutes only
 Into minutes and seconds only
 - 4. Into degrees, minutes, and seconds
 - 1-40. On the Earth's surface, 1 degree of latitude is equivalent to how many nautical miles?
 - 1.0
 - 2. 10.0
 - 3. 0.1
 - 4.60.0
 - If you are located at latitude 36°30.0'N, longitude 75°30.0'W, how 1-41 many nautical miles are you from the equator?
 - 1. 3,360 2. 2,190 3. 3,400 4. 4,530
 - 1-42 What is the principal use of dividers in navigation?
 - 1. To divide a line into equal parts
 - To transfer distance on a chart
 - To draw distance circles
 - To plot the distance of a known
 - 1-43 On the Mercator Projection, how do meridians appear?
 - 1. As parallel lines whose spacing increases as longitude increases
 - 2. As curved lines that bend toward the point where the projection was made

 3. As horizontal lines that are
 - parallel and equally spaced
 - 4. As straight lines that are parallel and equally spaced
 - 1-44. On a Mercator Projection, how does a rhumb line appear?
 - 1. As a curved line that is a great circle track
 - 2. As a curved line that is the shortest distance between two points
 - 3. As a straight line that is parallel to all meridians
 - paratter to all meridians
 4. As a straight line that crosses every meridian at the same angle

- 1-45. A rhumb line always represents the shortest distance between two points.
 - True 1.
 - 2. False
- Which of the following position 1-46. reports is properly expressed?
 - 35°16'43"N 1 Lat.
 - Long. 75°40'36"S
 - 35°16'43"S 2. Lat.
 - 75°40'36"W Long.
 - 75°40'36"E 3. Lat.
 - Long. 35°16'43"W
 - 75°40'36"S 4. Lat. Long. 35°16'43"N
- 1-47.All charts used by the Navy are issued by which of the following agencies?
 - British Admiralty
 - 2. Defense Mapping Agency Hydrographic/Topographic Center
 - National Ocean Service
- What part of the DMA Catalog of 1-48. Maps, Charts, and Related Products contains the Semiannual Bulletin Digest for hydrographic products?
 - Part 1 1.

 - Part 2 Part 3 3.
 - 4. Part 4
- Which of the following volumes of 1-49.the DMA catalog contains miscellaneous charts and publications regarding hydrographic products?
 - 1. VI
 - 2. VIII 3. X
- Which of the following publications 1-50 must be maintained so that you may have current information on all available hydrographic products?
 - 1. All semiannual bulletin digests and all monthly bulletins
 - A semiannual bulletin digest and the latest monthly bulletin
 - The latest semiannual bulletin digest and the latest monthly bulletin
 - The latest semiannual bulletin digest and all monthly bulletins

- 1-51. Information appearing for the first time in a monthly bulletin is marked in what way?
 - With an asterisk
 - Printed in bold type 2.
 - 3. Underlined
 - 4. Printed in italics
- What hydrographic bulletin provides 1-52. a complete summary of all available classified charts and publications?
 - Annual
 - 2. Semiannual
 - 3. Quarterly
 - 4. Monthly

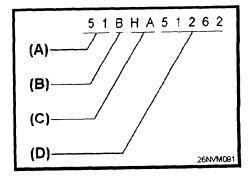


Figure 1-A

IN ANSWERING OUESTIONS 1-53 THROUGH 1-56, REFER TO THE DMA STOCK NUMBER SHOWN IN FIGURE 1-A.

- What is the basic nautical chart 1-53. number?
 - 1. Α
 - 2. B
 - C 3.
- What is the chart classification? 1-54.
 - 1. Α
 - 2. В
 - 3. C
 - 4. D
- 1-55 What is the geographic subregion?
 - 1. Δ
 - 2. B
 - 3. C
 - 4. D
- What is the portfolio assignment? 1-56
 - 1. A
 - 2. B
 - 3. C
 - D

- 1-57. The alphanumeric series designator is listed in the lower left hand

 1-65. The last three digits of a five-digit chart number ide corner of many charts.

 - 1. True 2. False
- Which of the following letters is used if a chart is not included in a portfolio?
 - 1. W 2. X 3. Y
- 1-59. What organization assigns chart numbers to charts used by the Navy?
 - The country producing the-chart
 The country the chart covers
 The Defense Mapping Agency

 - 4. The Coast Guard
- 1-60. What does the DMA chart number itself indicate?

 - Scale
 Geographical area covered
 - 3. Printing sequence
 - 4. Importance to navigation
- What scale, if any, is applied to 1-61 charts with one-digit numbers?
 - 1. Various
 - 2. 1:2,000,000 and smaller 3. 1:9,000,000 and larger

 - 4. None
- 1-62 Charts that cover major portions of the nine ocean basins have a total of how many digits?
 - 1. Five

 - 2. Two 3. Three 4. Four
- 1-63 In the chart numbering system, the five-digit chart number indicates a scale of what size?

 - 1. Smaller than 1:2,000,000 2. Larger than 1:2,000,000 3. 1:9,000,000 and smaller 4. Between 1:2,000,000 and 1:9,000,000
- Which of the following chart 1-64, numbers denotes a primary nautical chart?

 - 1. 8 2. 15 3. 121 4. 12634

8

- five-digit chart number identifies which of the following properties?

 - Scale
 Numerical

 - 3. Geographic order4. Importance to the portfolio
- 1-66. A Notice to Mariners correction record must be kept on which of the following navigation data?

 - Portfolios
 Charts only
 Publications only
 All charts and publications
- 1-67 How often is the periodical Notice to Mariners published?

 - Daily
 Weekly
 Monthly
 Quarterly
- 1-68 How often is the periodical Classified Notice to Mariners published?

 - Weekly
 Monthly
 Quarterly
 As needed
- 1-69. In section I of the Notice to Mariners, chart numbers are listed in what order?
 - 1. Numerical
 - 2. Alphabetical
 - 3. Geographical
 - 4. By subregions
 - Section I of the Notice to Mariners lists a correction for chart 12367. Should corrections be made to any other charts? If so, which ones?
 - 1. Yes; all charts that cover the same area
 - 2. Yes; all charts that cover the same area but of a larger scale
 - 3. Yes; all charts that cover the same area but of a smaller scale
 - 4. No
 - In section I of the Notice to Mariners, how is a correction based on original U.S. source information indicated?

 - A star
 Italics
 Underlined
 An asterisk

- 1-72. What symbol or letter preceding a correction in the Notice to Mariners indicates a temporary chart correction?
 - 1. R

 - 2. T 3. Star 4. Asterisk
- Which of the following indicators is NOT used in chart corrections 1-73. found in the Notice to Mariners?

 - 1. T 2. P 3. Star 4. Asterisk

- 1-74. How are all courses and bearings given in the Notice to Mariners shown?

 - Clockwise from 000° true
 Clockwise from 000° magnetic
 Counterclockwise from 000° true
 Counterclockwise from 000° magnetic
- What agency publishes the Local Notice to Mariners? 1-75.

 - DMAHTC
 U.S. Coast Guard
 National Oceanographic Service
 Army Corps of Engineers